

CCAAGTTCTACCTCATGTTTGGAGGATCTTGCTAGCTATGCGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGG
 GCTGTGCGGGAACTCCCTTTT CAGGAGGGG CAGCCTT CATCCACAGATGCTCCTAAGGCTTGGAAATATGAATT
 GCCTGCAACAAATTTATGAGACCAAGACTCCCATAAAGCTGGACCCATTGGCACTTCCTTTGAACTGATGCA
 TATCTTTCTCTATGTGGTACAGCCGCGTGATTTCCCAAGAAGATCTTTGAGAAAATCTTACAGAAGGCATA
 TGAATCCAAAATTTGATTTATGACAGCCAGAAATCTTAGGCTCAAAGATGTCTACTATGAAGCAGG
 GATTATTCTATGCTGTGCTCTGGGGCTGCTGTTATTCTGATGCTCTGGTGGGGATTTTCTTTTGTAT
 GTGTGCTTGTGCTTAACAAATGTGGTGGAGAAATG CACCAGCGACAGAAGGAAATGGGCCCTTCTCTGAGGAA
 ATGCTTTGCAATCTCCCTGTTTGGTGATTTGTATAATAA TAAGCATTTGGCATCTCTATGTGTTTGGTGGCAA
 TCACCAGGTAAAGAACCCGGATCAAAGGAGTCGGAACCTGGCAGATAGCAATTTCAAGGATTTGCGAACTCT
 CTGTGAATGAACCTCCAGACAATCAAATATATATTTGGCCCAGTACAACAATACCAAGGACAAGCGCTTCA
 AGATCTGAACAGTATCAATTCACTGCTAGGAGGCGGAATTTCTTGACCGACTGAGACCCACATCATCCTCTGT
 TCTTGATGAGATTAAAGTCCATGGCAACAGCGATCAAGGAGACCAAGAGGCGTTGGAGAACATGAACAGCAGC
 CTTGAAGAGCTTGCACCAACAAAGTACACAGCTTAGCAGCAGTCTGACCAGCGTGAAAACTAGCCTCGCGTC
 ATCTCTCAATGACCTCTGTGCTTGTGTCATCCATCAAGTGAACCTGCAACAGCATCAGATTTGTCTCTAAG
 CCAGCTGAATAGCAACCTCGAAGTGGCAGCTTCCACCCGTGGATGCGAATCTGCAACAGTTAATAACGT
 TCTTAGGACAGATTTGGATGGCTGGTCCAA CAGGGCTATCAATCCCTTAATGATATACCTGACAGAGTACA
 ACGCCAAACACGACTCTGCTGAGCAGGTATCAAAGGGTCTTGAATTCATTTGGTTGAGATTCGACAATGT
 AACTCAGCGCTTCTCTATTCCAGATATACTCTCAGCATCTCTGTTTATGTAATACATCGAAAGTTATGAT
 CCACAGAAATTTTCTGATCATTTGGAAGAGTATGATT CATACTGTGTGGTGGGTGGCTGCTGCTCTCTCT
 GCTGACCCCTCATCGTATTTTCTTACTCTGGGCTTACTGTGTGGCGTGTGCGGCTATGACAGGCGATGCCAC
 CCGCACACCCGAGGCTGTGCTCCAA CACCGAGGCGTCTCTCATGTTGGAGTGGGATTAAGTTTCTCT
 CTTTGTGCGGATATTGATGATCACTTGTGGTCTTACCTTTGTCTTTGGTGCAAAATGTGGAAAACTGATCTG
 TGAACCTTACAGAGCAAGGAATTTATCCGGGTTTGGGATACACCTACTTACTAAATGAAGACTGGGAATA
 CTATCTCTCTGGGAAGCTATTTAATAAAATCAAAAATGAAGCTCACTTTTGAACAGTTTACAGTGTAGCTCAA
 AAAAAATGAGGCACTTACCGCACTTCCACTGCGAGAAGCTTCAATCTCAGTGAACATCTCAACATTTG
 TGAGCATCTGGAAGCATTAAGCAGTGAATTGGAAGTCTGAAGGTAAATCTTAATATCTTTCTGTGGGTGC
 AGCAGGAAGAAAAACCTTCAGGATTTTGTGCTGTGGAAATAGACAGAATGAATTATGACAGCTACTTGGC
 TCAGACTGTGAATCCCCCGCAGGAGTGAATCTTTATCATTGCTATGATCTTGAAGCAAAAGCAACAG
 TTTGCCCCACGGAATTTGAGGAATCTCCCTGAAAAGAGATGCACAACTATTAACCAATTCACCAGCAACG
 AGTCTTCTCTATAGAACAATCACTGAGCACCTCTATACCAAGCGTCAAGATCTTCAACGCAAGGGAATGG
 ATTGTGGAGAGAGTAATAGGATTTCTAGCTTCTCTGGATTGCTCTCAGAACTTCACTACAAACAATACTTCT
 CTCTGTTATTATTGAGGAACTATAAGAAGTATGGGAGAACAAATATAGGATATTTTGAACATTTCTGCAAGT
 GATCGAGTTCTCTATCAGTGAGAAAGTGGCATCGTGCAACCTGTGGCCACCGCTCTAGATACCTGCTGTTGA
 TGCTCTTCTGTGTAGCTACATTATCGACCCCTTGAATTTGTTTGGTTGGCATAGGAAAAAGCTACTGTTAT
 TTTACTTCCGGCTCTAATTTTTCGGTAAAAACTGGCTAAGTACTATCTGTCGAATGGATTCTGAGGAGCGTGA
 CGATGATGTTGAAATCTATACCATGAAAAATATGGAAAATGGTAATAATGGTTATCATAAAGATCATGATATA
 TGGTATTCACAATCCCTGTTATGACAAGCCCATCACAACTTGA TAGCTGATGTTGAAACTGCTTGAGCATCA
 GGATACTCAAGTGGAAAGGATCAGAGATTTTGGTAGTTTCTGGGTCTACAAGGACTTTCCAATCCAGGA
 GCAACGCGCACTGGCAAGTAGTGACTCAGGCGGGCAACGAAGCAACGCAACCTTGGTCTCTGCGGTAGTGT
 TATAAGATGAACACATACAGTTATAGTCCATGGTCCATCACTATTCAAGGATCAGCTCCCTCGTTCTCCAT
 TATTTTGTTTCTTACTTTTCTTACTAGTGGTTCTATTAGACACTACAACATATGGGCTGTTTGTTCCTAT
 TGGATGCAATTTCTATCAAACCTCTATCAAATGTGATGGCTAGATTCTAAACATATTGCCATGTGTGGAGTGTG
 CTGAACACACACAGTTCACAGAAAGATGCATTTTGTGATCAGTAAACGCTGTATATACCTTTGTTGATCTCA
 CAGAGTTTCTTAAACAAATGAGATTATAGGACTTTCTTCAATGAGCTAAATTAAGTCACCATTTACTTCT
 TGGTGGTGTGTAATAATCAATTTTCACTAAAGTGTGTGAAACCTGACGATATTCTTCAACGAGAGATT
 TCTATCTATTATATCTTATCAAGATTTGGCATGTTCCTACTTGGAAATGGGATGCAAAAGCTGATGAGA
 AACCTGCGTAATCCATCTGACAAATCAAAGAGAGAGAGAGATCTTGAGAGAGAAATGCTGTTCGTTCAA
 AAGTGGAGTTGTTTAAACAGGTGCCAATTACGCTGTACAGTTTAAACAGAGTTTCTGTGCTATTAGGATAAA
 CATTAATTGGAGTGCAGCTAACATGAGTATCATCAGACTAGTATCAAGTGTCTTAAAGTAAATATGAAGAG
 ATCTGTGCACAATTTCTAGATCTGTGTCCAGCATGGATGAACCTTGGAGTTTGGTCCCTAAATTTGATGAT
 AAAGCAAGGTAAATATCTTGTCTCAGGAGTTTCTATGTGGATTTGCTATTCAAAAGATGATGACGA
 ATGAAGAACTGTGCGACAAAAATTAAGCTTGATGTAATGGAATCCAGATGTAGGCATTCCCCCAGGCTCT
 TTTCTATGTGCAGATTGCACTTCTGATTCAATTTGAATAAAAGGAACCTGG

FIGURE 1

MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGP I GILFELVHIFLYVVQPRDFPEDT
 LRRFLQKAYESKIDYD**KPETVILGLK**IVVY**EAQTLCCTGLLFTIMPEL**MGYFFCMCRCCNCKCGGEMHQRQKEN
 GPFLRK**CFATSLLVICITTSIGTFY**GFVANHQVRTRIKRSRKLADSNFKDLRTLNLNETPEQIKYILAQYNTTKDK
 APTDLNSINSVLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKS LHQQSTQLSSSLTSVKTSLSR
 SLNDPLCLVHPSETCNSIRLSLSQLNSNPFLRQLPPVDAELDNVNNVLRITDLGLVQQGYQSLNDIPDRVQRQT
 TTVVAGIKRVLNSIGSDIDNVTRQLPIQDILSAFSVYVNNNTESYIHRNLPTLEEYDSYWW**LGGLVTCSSLTETVI**
FYYIGLLCGVCGYDRHATPTTRGCVSNTGGV**FLMVGVGLSFLFCWILMLVVVLT**TFVFGANVEKLIICEPYTSKELF
 RVLDTPYLLNEDWEYYLSGKLFNKSMMKLT**FBQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELES**
 LKVNINI**FLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKS**PAGVNLLS**FAYDLEAKANS**LPPGNLNSLKRDAQ
 TIKTIHQQRVLP**IEQSLSTLYQSVKILQRTGNGLLERVTRILASL**DFAQNFITNNTSSVII**EETKKGRTIIIGYF**
 BHYLQWIEFSISEKVASCKPVATALD**TAVDVFLCSYIIDPLNLFWFGTGRATVELLPALISAVK**IAKYRRMDSE
 DVYDDVETIPMKNMENGNNGYHKDHVYG IHNPMVTSPSQH.

FIGURE 2

bioRxiv preprint doi: <https://doi.org/10.1101/2021.03.10.433333>; this version posted March 10, 2021. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.



FIGURE 3

CCAAGTTCTACCTCATGTTTGGAGGATCTTGCTAGCTATGGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGG
 GCTGTGGCGGAACTCCTTTTCAGGAGGGCAGCCTTCATCCACAGATGCTCCTAAGGCTTGGAAATTATGAATT
 GCCTCGCAACAAATTTATGAGACCCAAGACTCCCAATAAGCTGGAGCCCATTTGGCATCTCTTTTGAACATAGTGCA
 TATCTTTCTCTATTTGTGTACAGCCGCGTGATTTCCGACAAGATCTTTGAGAAAATCTTACAGAAGGCATA
 TGAATCCAAAATTGATTATGACATTTGCTACTATGAAGCAGGGATTATTCTATGTCTGTGTCTCGGGGCTGTCT
 GTTTATATTTCTGATGCTCTTGGTGGGGTATTCTTTTGTATGTGCTGTGCTGTGAACAAATGTGGTGGAGA
 AATGCAACAGCGACAGAAAGGAAAAATGGGCCCTTCTCGAGGAAATGCTTTGCAATCTCCCTGTGGTATTGTTG
 TATAAATAAAGCATTTGGCATCTCTTATGTTTGTGGCAAAATCACCAGGTAAAGAACCCGGATCAAAAGGAG
 TCGGAAACTGGCAGATAGCAATTTCAAGGACTTGCAGACTCTCTTGAATGCAACTCCAGAGCAAACTCAATA
 TATATTGGCCCAAGTACAACACTACCAAGGACAAGCGCTTACAGATCTGAACAGTATCAATTCAGTGCTAGG
 AGGCGGAATTCTTGACCGACTGAGACCCAACATCATCCCTGTTCTTGATGAGATTAAAGTCCATGGCAACAGC
 GATCAAGGAGACCAAGAGGCGTTGGAGAACATGAACAGCAGCTTGAAGAGCTTGACCAACAAGATACACA
 GCTTAGCAGCAGCTGACACAGCGTGAAAATAGCCTCGGCTCATCTCTCAATGACCCTCTGTGCTTGGTGCA
 TCCATCAAGTGAAACCTGCAACAGCATCAGATTGTCTTAAGCCAGCTGAATAGCAACCCCTGAACTGAGGCA
 GCTTCACCCTGGATGCGAAGCTTGACAACGTTAATAACGTTCTTAGGACAGATTGGATGGCTGGTGCA
 ACAGGGCTATCAATCCCTTAAATGATATACCTGACAGAGTACAACGCCAAACCAGCACTGCTGAGCAGGTAT
 CAAAAGGGTCTTGAATTTCAATGGTTCAGATATCGACAATTGAATCAGCGTCTCTTCTTATCAGGATATACT
 CTCAGCATCTCTCTGTTATGTTAATAACACTGAAAGTTACATCCACGAAATTTACTTACATTGGAAGAGTA
 TGATTACATCTGGTGGTGGGCTGGCTGGCTGCTCTGCTCTGACCTCATCTGCTGATTTTTACTACCT
 CTCTACTGTGTGGCGGTGTGGCTATGACAGGCATGCCACCCGACCCAGGCTGGCTGTGCTCCCAACAC
 CGGAGCGCTTCTCTCATGGTTGGAGTTGGATTAAGTTTCTCTTTTGTGGATTTGATGATCATTTGTGGT
 TCTTACCTTTGTCTTTTGGTGCAAATGTGGAAAACTGATCTGTGAACCTTACACGAGCAGGAATATTCCG
 GGTTTGGATACACCTTACTTAAATGAAGACTGGGAATACTCTCTCGGGAAGCTATTTAATAAACT
 AAAAAATGAAGCTACCTTTTGAACAAGTTTACAGTGACTGCAAAAAAATAGAGGCATCTACGGCACTCTTCA
 CCTGCGAAGACGCTTCAATCAGTGAACATCTCAACATTAAATGAGCATCTGGAAGCATTAAGCAGTGAATT
 GGAAGTCTGAAGGTAATCTTAAATCTTTCTGTGGTGAGCAGGAAGAAAAACCTTCAGGATTTTGGC
 TGCTTTGTGGAATGACAGAAATTAATGACAGCTACTTGGCTCAGACTGGTAAATCCCCGACGAGGTGAA
 TCTTTTACTTTCATGATGATCTAGAAGCAAAAGCAAACTGTTGCCCCAGAAATTTGAGGAACCTCCT
 GAAAAGAGATGCACAAACTATTAAAACAATTCACCAGCAACAGTGCTCTTCTATAGAACAATCATGAGCAC
 TCTATACCAAGCGTCAAGATACTTCAACGCACAGGGAATGGATTGTTGGAGAGAGTAACATAGGATTCTAGC
 TTCTCTGGATTTTGTCTCAGAACTTCATCACAAACAATCTTCTCTGTATTATTGAGGAAAACTAAGAAGTA
 TGGGAGAACAATAATAGGATATTTTGAACATTATCTGAGTGGATCGAGTTCTCTATCAGTGAGAAAGTTGGC
 ATCGTGCAAACTGTGGCCACCGCTCTAGATACTGCTGTGTGATGCTTTCTGTGTAGCTACATATTGACCC
 CTGGAATTTGTTTGTGTTGGCATAGGAAAAGCTACTGTATTTTACTTCCGCTCTAATTTTGGCGTAAA
 ACTGGCTAAGTACTATCGTCGAATGGATTCCGAGGAGCGTGTACGATGATGTTGAAACTATACCATGAAAA
 TATGGAATAATGGTAATAATGGTTATCATAAAAGATCATGTATATGGTATTCACCAATCCGTTATGACAAAGCC
 ATCACAACTATGATAGCTGATGTTGAAAACGCTTGAGCATCAGGATCACTCAAAGTGGAAAGGATACAGATT
 TTTGTGTAGTTTCTGGGTCTACAAGGACTTCCAATCCAGGAGCAACGCGAGTGGCAACGTAGTGATCTCAGG
 CGGGCACCAAGGCAACGCGACCATTTGCTCTGCTGGTGTAGTCTTTAAGAAATGAACACAACTACGTTATATGCTC
 ATGGTCCACTACTATTCAAGGATGACTCCCTCCCTCTCTGTCTATTTTGTGTTTCTTTTACACTGAG
 TTTCTATTATGACACTACACATATGGGGTGTGTTGTTCCCATTTGGATGCACTTCTATCAAACTCTATCAA
 TGTGATGGCTAGATTCTAACATATTGCCATGTGTGGAGTGTGCTGAACACACACAGTTTACAGGAAGAGTG
 CATTTTGTGACAGTATGAACCGGTGTATATACCTTTGTTACACAGAGTTTCTTTAAACAAGATGAGTATTATG
 GACTTTCTTCAATAGACTAAAATAGTCACCATTTGACTTCTGGTGTCTGTTGAAAATAATTCATTTCATCT
 AAAAGTGTGGAACCTCAGCATATTTCTTCCAGCAGAGATTTCTCATCTATTACTTTATCAAGAGATTGGC
 CATGTTCCACTTGGAAATGGCATGCAAAAGCCATCATAGAGAAACCTGCGTAACCTCATCTGACAAATTCAA
 AAGAGAGAGAGAGATCTTGAGAGAAATGCTGTTCTGTTCAAAAGTGGAGTTGTTTTAACAGATGCCAATTA
 CGGTGTACAGTTTAAACAGAGTTTCTGTGTCATTAGGATAAACATTAAATTGGAGTGCAGCTAACATGAGTAT
 CATCAGACTAGTATCAAGTGTCTTAAAATGAAATATGAGAAGACTCTGTACACAATCTTATGATCTGGTGTCC
 AGCATGAGTGAACCTTTGAGTTTGGTCCCTAAATTTGATGAAAGCACAAGGAAATATTCATTGTTCTTCA
 GAGTTTCATGTTGGATCTGTCTATCAAAAGTGATCAGCAATGAAGAAGTGGTGGGACAAAATTTAAGCT
 TGATGTAATGGAATTCAGAGTAGGCATTCACCCAGGTCCTTTTATGTGAGATGTCAGTTCTGATTTCAT
 TTGAATAAAAAGGAACCTGG

FIGURE 4

